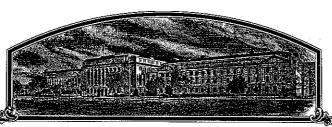
No.



9000014

THE DANKHERD SHAYHES OF AMIERICA

TOALL TO VHOM THESE PRESENTS SHAM COME:
Thio Agricultural Research and Development Center
Thio State University and USBA—ARS

Telhereus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PEANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS F CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

*Waived, except that this waiver shall not apply to breeder seed, undation seed, labeling requirements, and blending limitations.)

SOYBEAN 'Sprite 87'

In Lestimonn Witnereot, I have hereunto set my hand and caused the seal of the Pixut Variety Protection Office to be affixed at the City of Washington, D.C.

this 28th day of February in the year of our Lord one thousand nine hundred and ninety-two.

Attost:

KennetlkEvans

Commissioner

Plant Variety Protection Office .

Agricultural Marketing Service

NWAND MADIGIN Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on rewers) 1. NAME OF APPLICANTIS) Olici Agricultural Research and Development Center and USDA-ARS Olicident Research and Development Center, No. Cap. Sams, and Zip Code) Olicident Center and USDA-ARS Olicident Research and Development Center, No. Cap. Sams, and Zip Code) Olicident Center and USDA-ARS Olicident Center, No. Cap. Sams, and Zip Code) Olicident Center and USDA-ARS Olicide	U.S. DEPARTMENT					M APPROVED: OMB NO, 0581-0055
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on reverse) 1. NAME OF APPLICANTS Ohio Agricultural Research and Development Center and USDA-ARS 4. ADDRESS Street and the or R.F.D. No. Cry., State, and Zip Code! S. PHONE Include area code! Ohio Agricultural Research and Development Center, Wooster, OH 44691 6. GENUS AND SPECIES NAME CItycine max Leguminosae 7. FAMILY NAME (Bosnical) Leguminosae 8. KIND NAME 8. DATE OF DETERMINATION 2/15/87 ABJURY FOR OFFICIAL USE ONLY	AGRICULTURAL MA	Application is required in order to determine				
### Instructions on reverse 1. NAME OF APPLICANTIS Control	ADDI IOATION COD DI ANGLIANO	be issued (7 U.S.C. 2421). Information is				
NAME OF APPLICANTS CENTER and Development Center and USDA-ARS Leguminosae Legu		held confidential until certificate is issued				
Ohio Agricultural Research and Development Center and USDA-ARS A ADDRESS (Street and No. or R.F.O. No. City. Stee, and Zip Code) Ohio Agricultural Research and Development Center, Wooster, ON 44691 8. GENUS AND SPECIES NAME OF CENTERS OF THE STATE OF CONTROL OF THE APPLICANT NAME (Bosenical) Leguminosae 8. KIND NAME 9. DATE OF DETERMINATION 2/15/87 10. If THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, purmership, association, etc.) Agricultural Experiment Station 11. If INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF DETERMINATION AND RECEIVE ALL PAPERS DATE OF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, purmership, association, etc.) Agricultural Experiment Station 11. If INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF INCORPORATION 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. Richard L. Cooper, Department of Agronomy Ohio Agricultural Research and Development Center WOOSTER, OH 44691 PROME (Include area code): 216-263-3875 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED 15. Exhibit B, Novelry Statement. 16. Exhibit B, Novelry Statement. 17. Exhibit B, Novelry Statement. 18. DOES THE APPLICANTY SIEPPREY THAT SEED OF THIS VARIETY DE SOLD BY VARIETY Protection Office.) 18. DOES THE APPLICANTY SIEPPREY THAT SEED OF THIS VARIETY DE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SECO) (See Section 36) of the Plant Variety Protection Act.) 18. DOES THE APPLICANTY SIEPPREY THAT SEED OF THIS VARIETY DE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SECO) (See Section 36) of the Plant Variety Protection OF THE VARIETY SEE NOTHER OF SECON		s on reverse)			(7 U.	S.C. 2426).
Development Center and USDA-ARS A ADORES (Server and No. AFE, R.A. O.C.): Sen. and Zip Code) Ohio Agricultural Research and Development Center, Wooster, OH 44691 8. GENUS AND SPECIES NAME Glycine max Leguminosae 8. KIND NAME 9. DATE OF DETERMINATION Soybeans 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, Agricultural Experiment Station 11. IF INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF DETERMINATION 2/15/87 13. HAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. Richard L. Cooper, Department of Agronomy Ohio Agricultural Research and Development Center Wooster, OH 44691 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED 15. Ethibit R, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) 16. Ethibit R, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) 17. Exhibit D, Additional Description of Variety EED? (See Section \$1/4) of the Basis of Applicant's Ownership. 18. DOES THE APPLICANT'S) SPECIFY THAT THE SECTOR THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CENTIFIED SECTOR OF GENERALIONS 19. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 10. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 10. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 10. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 10. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 11. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 12. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 15. HAS THE VARIETY DEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 16. DID THE APPLICANT(S) PREVI			2.	TEMPORARY DESIGNATION	3. V	ARIETY NAME
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Onto Agricultural Research and Development Center, Wooster, OH 44691 8. GENUS AND SPECIES NAME Clycine max 1. FAMILY NAME (Botanical) Leguminosae 1. Leguminosae 2. Leguminosae 2. Leguminosae 3. Date of Determination Soybeans 10. If the applicant named is not a "Person," give form of organization (Corporation, partmethin, association, etc.) Agricultural Experiment Station 11. If Incorporation, association, etc.) 12. Date of Determination (Corporation, partmethin, association, etc.) 13. NAME AND ADDRESS of APPLICANT REPRESENTATIVES), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. Richard L. Cooper, Department of Agronomy Ohio Agricultural Research and Development Center Wooster, OH 44691 PHONE (Include area code): 216–263–3875 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITED 15. DOES THE APPLICANT'S PECIFY THAT SEED OF THIS VARIETY (See Section 52 of the Plant Variety Protection Act.) 16. DOES THE APPLICANT'S PECIFY THAT SEED OF THIS VARIETY BE SEED (See Section 31) of the Basis of Applicant's Ownership. 16. DOES THE APPLICANT'S PECIFY THAT SEED OF THIS VARIETY BE SEED (See Section 31) of the Basis of Applicant's Ownership. 17. PROVIDED THE APPLICANT'S PECIFY THAT THIS VARIETY BE SEED (See Section 31) of the Basis of Applicant's Ownership. 18. DID THE APPLICANT'S PECIFY THAT THIS VARIETY BE SEED (See Section 31) of the Basis of Applicant's Ownership. 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES TO SEED (See Section 31) of the Basis of Applicant's Ownership. 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES TO SEED (See Section 31) of the Basis of Applicant's Ownership. 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES TO SECURITIES TO SEED (See Section 31) of The Applicant's Ownership. 20. The applicant's declare(s) that a viable sample of basis secds of this variety will be furnished with the application and will be repleased			_	<u> </u>	S	
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Agricultural Experiment Station 11. IF INCORPORATED, GIVE STATE OF INCORPORATION 12. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. Richard L. Cooper, Department of Agronomy Ohio Agricultural Research and Development Center Wooster, OH 44691 PHONE linelude area codel: 216-263-3875 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED a. ② Exhibit Q, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. ② Exhibit Q, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) d. ② Exhibit Q, Objective Description of Variety (Request form from Plant Variety Protection Office.) d. ② Exhibit D, Nodelty Statement. c. ② Exhibit D, Additional Description of Variety Request form from Plant Variety Protection Office.) d. ② Exhibit D, Statement of the Basis of Applicant's Ownership. 15. DOES THE APPLICANT'S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 33/a) of the Plant Variety Protection Act.) The View of the Plant Variety Protection Act.) 12. IF "YES," TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? 13. FOUNDATION THE U.S.? 14. CHECK APPRICANT'S) SPECIFY THAT THIS VARIETY BE USA January 1, 1989 15. DOES THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? 16. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? 17. IF "YES," "give names. Of countries and dates! 18. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 19. No 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. 19. No 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will	10. IF THE APPLICANT NAMED IS NOT A "PERSO	N." GIVE FORM	OF (ORGANIZATION (Corporation.	ä	AMOUNT FOR CERTIFICATE
11. IF INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF INCORPORATION 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. Richard L. Cooper, Department of Agronomy Ohio Agricultural Research and Development Center Wooster, OH 44691 PHONE (Include area code): 216-263-3875 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED a. Mark Experiment of Experiment of the Variety (See Section 52 of the Plant Variety Protection Act.) b. Mark Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.) d. Mark Experiment of the Basis of Applicant's Ownership. 15. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 32) of the Plant Variety Protection Office.) 16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE 17. IF "Yes," answer items 16 and 17 below) 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? 19. HAS THE VARIETY SEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S.? 19. HAS THE VARIETY SEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? Ves. (If "Yes," give date) 19. HAS THE VARIETY SEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? Ves. (If "Yes," give names of countries and dates) 19. No 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection AC. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF APPLICANT	partnership, association, etc.)				ES	s 250
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Wooster, OH 44691 PHONE (Include area code): 216-263-3875 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED a. \(\text{ Exhibit A, Origin and Breeding History of the Variety (See Section 32 of the Plant Variety Protection Act.)} \) b. \(\text{ Exhibit B, Novelty Statement.} \) c. \(\text{ Exhibit D, Additional Description of Variety (Request form from Plant Variety Protection Office.)} \) d. \(\text{ Exhibit D, Additional Description of Variety.} \) e. \(\text{ Exhibit E, Statement of the Basis of Applicant's Ownership.} \) e. \(\text{ Exhibit E, Statement of the Basis of Applicant's Ownership.} \) 15. \(\text{ DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) \) 16. \(\text{ Ves. (If "Yes.," answer items 16 and 17 below)} \) 17. \(\text{ If "Yes.," answer items 16 and 17 below)} \) 18. \(\text{ DID THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE SEVOND BREEDER SEED?} \) 19. \(\text{ Yes } \) 10. \(\text{ NO NUMBER OF GENERATIONS?} \) 11. \(\text{ If "Yes," answer items 16 and 17 below)} \) 12. \(\text{ Yes (If "Yes," give date)} \) 13. \(\text{ Foundation} \) 14. \(\text{ Protection Act.} \) 15. \(\text{ Polymostation} \) 16. \(\text{ DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? \) 17. \(\text{ If "Yes," give date)} \) 18. \(\text{ DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? \) 19. \(\text{ Ves. (If "Yes," give names of countries and dates)} \) 19. \(No						
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15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) 16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? 17. IF "Yes," answer items 16 and 17 below) 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 19. USA January 1, 1989 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF APPLICANT DATE The undersigned Applicant of the Plant Applicant of the Plant Plant Applicant of the Plant Plant Applicant of the Plant Applicant of t	d. L Exhibit D, Additional Description of Varie	ety.				
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16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? 17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? 19. USA January 1, 1989 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF APPLICANT DATE To ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? The undersigned Q Registered Q Certified To ITEM 16, WHICH CLASSES OF PRODUCTION DESCRIPTION DE			IET [®] Y			. —
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18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? Yes (If "Yes," give date) No 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? USA January 1, 1989 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF APPLICANT DATE Town 3, 1989	LIMITED AS TO NUMBER OF GENERATIONS?			BEYOND BREEDER SEE	D7	
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Richard Llooper Date Monday 1989	Variety Protection Act.	. 1		•	•	
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Sprite 87

Origin and Breeding History of the Variety

Sprite 87 soybean [Glycine max (L.) Merr.] is a Phytophthora resistant version of Sprite developed by backcrossing the ${\rm Rps}_1$ gene from Williams 82 into Sprite. The initial cross between Sprite and Williams 82 was made in 1979 by R. L. Cooper, USDA-ARS Soybean Breeder, at the Ohio Agricultural Research and Development Center, Wooster. Using Sprite as the recurrent parent, Phytophthora resistant (Race 5) F, and BCF, plants wee backcrossed to Sprite for six generations to obtain the Sprite genotype containing the Rps, gene. This procedure is outlined below:

1979 Field-Initial cross of Sprite x Williams 82

1979 Fall Greenhouse-Sprite X F.

1979 Fall Greenhouse-Sprite X r₁ 1980 Spring Greenhouse-Sprite X resistant BC₁F₁ 1980 Fall Greenhouse-Sprite X resistant BC₂F₁

1981 Spring Greenhouse-Sprite X resistant $\text{BC}_3^{\perp}F_1$

1981 Field-Sprite X resistant BCAF

1981 Fall Greenhouse-Sprite X resistant BC₅F₁

1982 Spring Greenhouse-Planted 18 BC₆F₁s

The 18 BC $_6F_1$ plants were single plant threshed and their progeny (20 F_2 plants per F_1) were screened against Race 5 of Phytophthora root rot in the 1982 Summer Greenhouse to identify resistant BC, F, plants. The resistant (R_) plants were progeny tested in the BC $_{6}$ F $_{3}$ in the 1983 Spring Greenhouse to identify homozygous resistant (RR) BC,F, plants. Twenty-two homozygous resistant BC,F,-derived lines were identified and planted in the 1983 Field in 10-foot, I-fow plots and 1 replication for preliminary yield testing. 22 lines were advanced for yield testing in 4-row, 20-foot plots and two replications in 1984. The 13 highest yielding lines, similar in other agronomic characteristics to Sprite, were advanced for a second year of yield testing in replicated 4-row plots in 1985. The 6 highest yielding F2-derived lines were bulked to form HC Sprite BC. HC Sprite BC was entered in the Uniform Regional Test III, Northern States in 1986 and was yield tested, in comparison with the recurrent parent, Sprite, in Iowa, Illinois, Indiana, Kansas, Kentucky, Missouri, Nebraska, New Jersey, Ohio, Pennsylvania, South Dakota and Ontario, Canada. Breeder's Seed increase (1 hectare) of HC Sprite BC was also planted by Ohio Foundation Seeds at Croton, OH in 1986 to produce 2700 kg of seed in anticipation of potential release. HC Sprite BC was jointly released by the Ohio Agricultural Research and Development Center and ARS in 1987. HC Sprite BC was named Sprite 87 in accordance with Regional policy to identify the year of release of Phytophthora resistant backcross version of an existing variety. Publicity was released September 1, 1988.

Variants observed during the development of this variety were few. In the 1986 increase of Breeder's Seed no variants were observed except for those few that might be traced back to slight admixtures resulting from incomplete combine clean out and these plants were rogued out. Variants resulting in future generations should be within allowable Certification maximums. Sprite 87 is a white flowered variety but may contain a variant of upto 0.5% purple flowers

Novelty Statement and Botanical Description of the Variety

Sprite 87 is a determinate (dt₁dt₁) semidwarf variety of mid-Group III maturity. Sprite 87 can be distinguished from all other Group III indeterminate (Dt₁Dt₁) varieties by its determinate growth habit which results in an abrupt termination in further plant height increase shortly after the onset of flowering and a terminal cluster of flowers and pods. It can be distinguished from all other determinate semidwarf varieties, except Gnome 85 and Hobbit 87 by its resistance to multiple races of Phytophthora root rot (races 1 thru 10, 13, 14, 15, 17, 18, 21 and 22), due to the presence of the Rps₁ gene. It can be distinguished from Gnome 85 by its later maturity (5 days later than Gnome 85) and white flowers. Gnome 85 has purple flowers. Sprite 87 can be distinguished from Hobbit 87 by its more bushy plant type, larger seed size (16.7 gms versus 15.6 gms/100 seed) and the presence of high peroxidase activity in the seed coat compared to absence (or very low) peroxidase activity in the seed coat of Hobbit 87.

Like all determinate semidwarf varieties, Sprite 87 was developed specifically for high yield environments where early lodging frequently limits the yield of taller indeterminate varieties. Because of its smaller plant type and greater lodging resistance, Sprite 87 is especially responsive to narrow rows (solid-seeding in 17- to 25-cm row widths) and high seeding rates (562,000 to 750,000 seed/hectare in 17-cm rows). Although Sprite 87 will yield well in 75-cm row widths, it is recommended for solid-seeding to maximize yields.

Sprite 87 has white flowers, tawny (or brown) pubescence, tan pods and yellow seeds with a black hilum

Most Similar Variety

The variety most similar to Sprite 87 is Sprite but Sprite 87 can readily be distinguished from Sprite by its resistance to multiple races of Phytophthora root rot. Sprite has no known resistance to specific races of Phytophthora root rot.

Uniform Regional Tests III, 1986 (Mean of 19 locations)

Variety	Yield	Matur- Yield ity Lodg		Height	Seed Quality	Seed Size	Composition Protein Oil		
	(bu/A) (data)		(score)	(inches)	(score) ²	g/100			
Sprite 87	49.9	9-20	1.6	21	1.8	16.7	39.0	22.0	
Sprite	48.3	9-19	1.4	21	1.8	17.1	39.0	23.2	
1			2				 		

^{1 =} erect, 5 =prostrate 2 =1 = very good, 5 =very poor

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

Appropriate the state of the st	O'BEAN (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Ohio Agricultural Research and Development Center and USDA-ARS	HC Sprite BC	Sprite 87
ADDRESS (Street and No., or R.F.D. No., City, State, and	d Zip Code)	FOR OFFICIAL USE ONLY
Ohio Agricultural Research and Deve	and the second s	PVPO NUMBER
Wooster, OH 44691	- -	9000014
Choose the appropriate response which characterize	es the variety in the features described	below. When the number of significant digits
in your answer is fewer than the number of boxes p	rovided, place a zero in the first box v	when number is 9 or less (e.g., 0 9).
Starred characters * are considered fundamental to when information is available.	an adequate soybean variety descripti	ion. Other characters should be described
1. SEED SHAPE:		
	Ψ	
	w T	
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2	2 = Spherical Flattened	(L/W ratio > 1.2; L/T ratio = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		(L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)	The state of the s	
2, SEED COAT COLON. (Watthe Geed)	general News	
1 1 = Yellow 2 = Green 3 = Brow	wn 4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		and the second of the second o
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shin	v ('Nebsov': 'Gasov 17')	
	The Assault of the Property of	
4. SEED SIZE: (Mature Seed)		
en e	And the second s	Mention and the second of the
1 8 Grams per 100 seeds		•
5. HILUM COLOR: (Mature Seed)	Let an arrane in New York after a fix of the fixed	
5. ALLOW COLOR. (Wature Seed)		
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Bla	ack 6 = Black 7 = Other (Specify)
		· · · · · · · · · · · · · · · · · · ·
6. COTYLEDON COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green	•	
1 - Fellow 2 - Green	and the second of the second o	and the second s
7. SEED PROTEIN PEROXIDASE ACTIVITY:		· · · · · · · · · · · · · · · · · · ·
2 = High	and the second s	$(x_1, \dots, x_n) = (x_1, \dots, x_n) \cdot (x_1, \dots, x_n$
8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 ⁸) 2 = Type B ((SP1 ^b)	
		and the second of the second o
9. HYPOCOTYL COLOR:		
1 - C	the second of the second	
1 = Green only ('Evans'; 'Davis') 2 = G 3 = Light Purple below cotyledons ('Beeson'; 'Pick	reen with bronze band below cotyledons (sett 71')	'Woodworth'; 'Tracy')
4 = Dark Purple extending to unifoliate leaves ('Ho		and the second of the second o
O. LEAFLET SHAPE:	•	· · · · · · · · · · · · · · · · · · ·
CONTRACTOR	greenske kan ble keeling begin beskering.	•
3 1 = Lanceolate 2 = Oval 3 =	= Ovate 4 = Other (Specify)	<u></u>

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

11. LEAFLET SIZE:	**************************************	· · · · · · · · · · · · · · · · · · ·
1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17')	
	i de la composition de la composition La composition de la	
12. LEAF COLOR:		en de la companya de La companya de la co
1 = Light Green ('Weber'; 'York')	2 = Medium Green ('Corsoy 79'; 'Brax	ton')
3 = Dark Green ('Gnome'; 'Tracy')	and the second second	
3. FLOWER COLOR:		
1 = White 2 = Purple	3 = White with purple throat	and the second s
2. POD COLOR:		
The second secon	. 3 = Black	e dan e A dan e
PLANT PUBESCENCE COLOR:		
2 1 = Gray 2 = Brown (Tawny)	en e	and the second of the second o
. PLANT TYPES:	The second secon	
3 1 = Slender ('Essex'; 'Amsoy 71')	2 = Intermediate ('Amcor'; 'Braxton')	
3 = Bushy ('Gnome'; 'Govan')	2- memediale (Amor, Blacton)	er i sager en la compaction de graphique en
7. PLANT HABIT:		
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pel	2 = Semi-Determinate ('Will')	- Control of the cont
The section of the se	Man Length Length Length Length	
. MATURITY GROUP:	4.2 Section 1. Sect	en e
1 = 000 2 = 00 3 = 0	> 4=1	7 = IV
9 = VI 10 = VII 11 = VIII		
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DISEASE REACTION: (Enter 0 = Not Tested; 1 = S	Susceptible; 2 = Resistant)	and the company of the second
BACTERIAL DISEASES:		
Bacterial Pustule (Xanthomonas phaseoli va	r. sojensis)	
Bacterial Blight (Pseudomonas glycinea)		and the second s
Wildfire (Pseudomonas tabaci)	en e	en de elle assezz de de la la la elle
FUNDAL DISTANCE.	•	and the second of the second of the second
	utter agrif om til skulptil skulptil og en	and the state of t
0 Brown Spot (Septoria glycines)		**************************************
Frogeye Leaf Spot (Cercospora sojina)	e ja amaka <u>a aa j</u> ee lee laasa laasa ah la 🛊	
0 Race 1 0 Race 2 0 Rac	ce 3 0 Race 4 0 Race 5	Other (Specify)
Target Spot (Corynespora cassiicola)		
2 Downy Mildew (Peronospora trifoliorum var	. manshurica)	
Powdery Mildew (Microsphaera diffusa)	Sales All Services (Transport of the Control of the	
Brown Stem Rot (Cephalosporium gregatum, Stem Canker (Diaporthe phaseolorum var. ca	Variet (MANGAQUERACIA CASA MASSELLA)	
	·李子曾有一位:"我知道,我说明,我们会不会,我有什么好了,你们的人们的人们,就会说:"你说,这样说:""你说话。"	· ·

19.	DISEA	SE REACTION	N: (Enter 0 = Not 1	Tested; 1	= Suscept	tible; 2 =	Resistant)	(Continued)	April 40 April	and the second second		strant or all the	en e e e e e e e e e e e e e e e e e e
	FUN	GAL DISEASI	ES: (Continued)											1
*	0	Pod and Ster	n Blight <i>(Diaporthe</i>	phaseolo	o <i>rum</i> var;	sojae)								
	0	Purple Seed	Stain <i>(Cercospora k</i>	(ikuchii)										
	0	Rhizoctonia	Root Rot (Rhizoct	onia sola	ni)									
		Phytophthor	a Rot (Phytophtho	ra megas _i	p <i>erma</i> var	. sojae)								
*	2	Race 1	2 Race 2	2	Race 3	2	Race 4	2	Race 5	2	Race 6	2	Race 7	
	2	Race 8	2 Race 9	2	Other (Sp	ecify) 1	0, 13,	14, 15	<u>, 17,</u>	18, 21	, 22	(conta	ins Rps	, k gene)
	VIRA	AL DISEASES:						• -						1
	0	Bud Blight (1	Tobacco Ringspot V	/irus)										
	0	Yellow Mosa	ic (Bean Yellow Mo	saic Viru	ıs)									
*	0	Cowpea Mosa	nic (Cowpea Chloro	tic Virus)					-				
	0		Bean Pod Mottle Vi		•									
*	0		Soybean Mosaic Vi	·				·						_
	NEMA	ATODE DISEA									•			
			: Nematode (Hetero	nders alve	ringel									
· ★		Race 1	1 Race 2		Race 3		Page 4		Dah a /0-					
	0	L	ode (Hoplolaimus C	L		لـــُـا	Race 4	L \	Other <i>(Sp</i>	всту)			.	
*			ot Knot Nematode			anital								
						-								
, 7			t Knot Nematode											
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			natode (Rotylenche											
-	0	OTHER DISE	ASE NOT ON FOR	RM (Spec	ify):				<u> </u>					<u></u>
20. I	PHYSIO	LOGICAL RE	SPONSES: (Enter	0 = Not 1	Fested; 1 =	= Suscept	ible; 2 = F	Resistant)						
*	1	Iron Chlorosis	on Calcareous Soil	l										
		Other <i>(Specif</i> y	/)						·					
21. 1	NSECT	REACTION:	(Enter 0 = Not Tes	ted; 1 = S	Susceptible	e: 2 = Re:	sistant)	12 132 342 70 21	et de esses.	27.150	1.41.4	34 14 4		·
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22. I	CHARA		RIETY MOST CLO	OSELY R	*****	ES THAT			I	<u>:</u>	<u> </u>	AP.	·	<u></u>
P	lant Shap		Sprite	. OF VAI				Coat Luster				OF VARI	ΕΤΥ	<u></u>
	eaf Shap		Sprite				Seed			Spr:			:	·
L	eaf Colo	Г	Sprite	N Y.			* 24	Shape		Spr.			i e e	
Ļ	eaf Size		Sprite	114.1		7.784	5 10, 27 1	ing Pigmenta	ition	Spr		1660.0	, , , , ,)	<u>~i</u>
de l	Ville III				1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	an and a	7 () () () () ()	. April 1985 April 1987 A			<u> : </u>			/

9000014

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CONTENT		SEED SIZE G/100	NO. SEEDS/	
g g 1964, 1 gartys 1 g an sandrate at the comment of the comment		SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD	
Submitted	126	1.6	22		हिन्द्रक है। <u>स्टिन</u> ् (5 कार्ट	39.0	22.9	16.7	2.5	
Sprite Name of Similar Variety	125		0224 S	9 9 30 1 <u>3 </u> 1 3 8 9 7	25 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	39.0	23.2	17.1	2.5	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

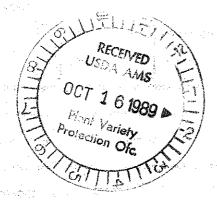


Exhibit E

Basis of Ownership

Sprite 87 variety is considered jointly owned by the Ohio Agricultural Research and Development Center of The Ohio State University (OARDC-OSU) and the USDA, Agricultural Research Service (ARS). The basis for this position is (1) the six backcrosses to introduce the Rps gene for multiple race resistance to Phytophthora root rot into Sprite were made at the OARDC, Wooster, OH, from 1979 to 1981 by R. L. Cooper who is a Research Agronomist with the USDA-ARS and Adjunct Professor in the Department of Agronomy, OARDC-OSU (2) the homozygous resistant BC F2-derived lines were evaluated by Dr. Cooper in 1983, 1984 and 1985 and similar lines were composited to from Breeder's Seed of Sprite 87 in 1986 and (3) the line (HC Sprite BC) was entered as an Ohio breeding line in Uniform Regional tests in 1986 without claims being made upon it. The seed supply was continuously under the control of OARDC-OSU and USDA-ARS until the spring of 1989 when seed will become publicly available after inspection and tagging as certified seed.

PLANT VARIETY PROTECTION OFFICE

Gentlemen:

Subject: Application No.

Variety and Kind: Soybean, 'Sprite 87'

As provided in section 83(a) of the Plant Variety Protection Act, 7 U.S.C. 2321, we request that the Certificate on the above variety be issued with a notation on the Certificate that the right to exclude others from selling, offering for sale, reproducing, importing or exporting the variety covered by this Certificate, or using it in producing a hybrid or different variety is <u>waived</u>, except that this waiver shall not apply to breeder's seed, foundation seed, labeling requirements, and blending limitations.

It has been agreed that the Certificate should be issued in the name(s) of:

Ohio Agricultural Research & Development Center, Ohio State
University and USDA-ARS

May 3, 1989

Rechard & Cooper (Signature)